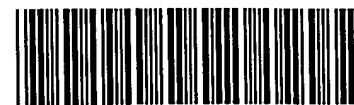


1647

RECEIVED
JUL 08 2002
TECH CENTER 1600/2900



1600

RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/09/604,325A

TIME: 10:09:38

Input Set : A:\32953A.txt

Output Set: N:\CRF3\07022002\I604325A.raw

SEQUENCE LISTING

ENTERED

4 (1) GENERAL INFORMATION:

6 (i) APPLICANT: Zsebo, Krisztina M.

7 Bosselman, Robert A.

8 Suggs, Sidney V.

9 Martin, Francis H.

11 (ii) TITLE OF INVENTION: Stem Cell Factor

13 (iii) NUMBER OF SEQUENCES: 104

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun

17 (B) STREET: 6300 Sears Tower, 233 South Wacker Drive

18 (C) CITY: Chicago

19 (D) STATE: Illinois

20 (E) COUNTRY: United States of America

21 (F) ZIP: 60606-6402

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/604,325A

C--> 31 (B) FILING DATE: 17-Jun-2002

32 (C) CLASSIFICATION:

50 (vii) PRIOR APPLICATION DATA:

35 (A) APPLICATION NUMBER: 07/982,255

36 (B) FILING DATE: 25-NOV-1992

39 (A) APPLICATION NUMBER: 07/589,701

40 (B) FILING DATE: 01-OCT-1990

43 (A) APPLICATION NUMBER: 07/573,616

44 (B) FILING DATE: 24-AUG-1990

47 (A) APPLICATION NUMBER: 07/537,198

48 (B) FILING DATE: 11-JUN-1990

51 (A) APPLICATION NUMBER: 07/422,383

52 (B) FILING DATE: 16-OCT-1989

54 (viii) ATTORNEY/AGENT INFORMATION:

55 (A) NAME: Clough, David W.

56 (B) REGISTRATION NUMBER: 36,107

57 (C) REFERENCE/DOCKET NUMBER: 01017/32953

59 (ix) TELECOMMUNICATION INFORMATION:

60 (A) TELEPHONE: 312/474-6300

61 (B) TELEFAX: 312/474-0448

62 (C) TELEX: 25-3856

RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/09/604,325A

TIME: 10:09:38

Input Set : A:\32953A.txt

Output Set: N:\CRF3\07022002\I604325A.raw

64 (2) INFORMATION FOR SEQ ID NO: 1:

66 (i) SEQUENCE CHARACTERISTICS:

67 (A) LENGTH: 165 amino acids

68 (B) TYPE: amino acid

69 (C) STRANDEDNESS: single

70 (D) TOPOLOGY: linear

72 (ii) MOLECULE TYPE: protein

74 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

```

76 Glu Glu Ile Cys Arg Asn Pro Val Thr Asp Asn Val Lys Asp Ile Thr
77 1 5 10 15
79 Lys Leu Val Ala Asn Leu Pro Asn Asp Tyr Met Ile Thr Leu Asn Tyr
80 20 25 30
82 Val Ala Gly Met Asp Val Leu Pro Ser His Cys Trp Leu Arg Asp Met
83 35 40 45
85 Val Thr His Leu Ser Val Ser Leu Thr Thr Leu Leu Asp Lys Phe Ser
86 50 55 60
88 Asn Ile Ser Glu Gly Leu Ser Asn Tyr Ser Ile Ile Asp Lys Leu Gly
89 65 70 75 80
91 Lys Ile Val Asp Asp Leu Val Ala Cys Met Glu Glu Asn Ala Pro Lys
92 85 90 95
94 Asn Val Lys Glu Ser Leu Lys Lys Pro Glu Thr Arg Asn Phe Thr Pro
95 100 105 110
97 Glu Glu Phe Phe Ser Ile Phe Asn Arg Ser Ile Asp Ala Phe Lys Asp
98 115 120 125
100 Phe Met Val Ala Ser Asp Thr Ser Asp Cys Val Leu Ser Ser Thr Leu
101 130 135 140
103 Gly Pro Glu Lys Asp Ser Arg Val Ser Val Thr Lys Pro Phe Met Leu
104 145 150 155 160
106 Pro Pro Val Ala Ala
107 165

```

109 (2) INFORMATION FOR SEQ ID NO: 2:

111 (i) SEQUENCE CHARACTERISTICS:

112 (A) LENGTH: 26 base pairs

113 (B) TYPE: nucleic acid

114 (C) STRANDEDNESS: single

115 (D) TOPOLOGY: linear

W--> 117 (ii) MOLECULE TYPE: DNA

119 (ix) FEATURE:

120 (A) NAME/KEY: modified_base

121 (B) LOCATION: 9

122 (D) OTHER INFORMATION: /mod_base= Inosine

124 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

126 ACRTTYTTNG GNGCRTTYTC YTCCAT

26

128 (2) INFORMATION FOR SEQ ID NO: 3:

130 (i) SEQUENCE CHARACTERISTICS:

131 (A) LENGTH: 23 base pairs

132 (B) TYPE: nucleic acid

133 (C) STRANDEDNESS: single

134 (D) TOPOLOGY: linear

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/604,325A

DATE: 07/02/2002
TIME: 10:09:38

Input Set : A:\32953A.txt
Output Set: N:\CRF3\07022002\I604325A.raw

```

W--> 136      (ii) MOLECULE TYPE: DNA
      138      (ix) FEATURE:
      139          (A) NAME/KEY: modified_base
      140          (B) LOCATION: 12 & 15
      141          (D) OTHER INFORMATION: /mod_base= Inosine
      143      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
      145 AARAAAYTCYT CNGGNGTRAA RTT                                     23
      147 (2) INFORMATION FOR SEQ ID NO: 4:
      149      (i) SEQUENCE CHARACTERISTICS:
      150          (A) LENGTH: 14 base pairs
      151          (B) TYPE: nucleic acid
      152          (C) STRANDEDNESS: single
      153          (D) TOPOLOGY: linear

W--> 155      (ii) MOLECULE TYPE: DNA
      157      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
      159 GTYTCNGGYT TYTT                                             14
      161 (2) INFORMATION FOR SEQ ID NO: 5:
      163      (i) SEQUENCE CHARACTERISTICS:
      164          (A) LENGTH: 26 base pairs
      165          (B) TYPE: nucleic acid
      166          (C) STRANDEDNESS: single
      167          (D) TOPOLOGY: linear

W--> 169      (ii) MOLECULE TYPE: DNA
      171      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
      173 ATGGARGARA AYCCCCCAA RAA YGT                                26
      175 (2) INFORMATION FOR SEQ ID NO: 6:
      177      (i) SEQUENCE CHARACTERISTICS:
      178          (A) LENGTH: 20 base pairs
      179          (B) TYPE: nucleic acid
      180          (C) STRANDEDNESS: single
      181          (D) TOPOLOGY: linear

W--> 183      (ii) MOLECULE TYPE: DNA
      185      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
      187 CCNAAAYGAYT AYATGWTMAC                                     20
      189 (2) INFORMATION FOR SEQ ID NO: 7:
      191      (i) SEQUENCE CHARACTERISTICS:
      192          (A) LENGTH: 20 base pairs
      193          (B) TYPE: nucleic acid
      194          (C) STRANDEDNESS: single
      195          (D) TOPOLOGY: linear

W--> 197      (ii) MOLECULE TYPE: DNA
      199      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
      201 GGNGGNARCA TRAANGGYTT                                     20
      203 (2) INFORMATION FOR SEQ ID NO: 8:
      205      (i) SEQUENCE CHARACTERISTICS:
      206          (A) LENGTH: 23 base pairs
      207          (B) TYPE: nucleic acid
      208          (C) STRANDEDNESS: single
      209          (D) TOPOLOGY: linear

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/604,325A

DATE: 07/02/2002

TIME: 10:09:38

Input Set : A:\32953A.txt

Output Set: N:\CRF3\07022002\I604325A.raw

```

W--> 211      (ii) MOLECULE TYPE: DNA
      213      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
      215 ACCAKAARAT CTTYAAANCG ATC
      217 (2) INFORMATION FOR SEQ ID NO: 9:
      219      (i) SEQUENCE CHARACTERISTICS:
      220          (A) LENGTH: 22 base pairs
      221          (B) TYPE: nucleic acid
      222          (C) STRANDEDNESS: single
      223          (D) TOPOLOGY: linear
W--> 225      (ii) MOLECULE TYPE: DNA
      227      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
      229 GTATTTTCAA TAGATCCATT GA
      231 (2) INFORMATION FOR SEQ ID NO: 10:
      233      (i) SEQUENCE CHARACTERISTICS:
      234          (A) LENGTH: 14 base pairs
      235          (B) TYPE: nucleic acid
      236          (C) STRANDEDNESS: single
      237          (D) TOPOLOGY: linear
W--> 239      (ii) MOLECULE TYPE: DNA
      241      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
      243 CCAACTATGT CGCC
      245 (2) INFORMATION FOR SEQ ID NO: 11:
      247      (i) SEQUENCE CHARACTERISTICS:
      248          (A) LENGTH: 21 base pairs
      249          (B) TYPE: nucleic acid
      250          (C) STRANDEDNESS: single
      251          (D) TOPOLOGY: linear
W--> 253      (ii) MOLECULE TYPE: DNA
      255      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
      257 GTAGTCAAGC TGACTGATAA G
      259 (2) INFORMATION FOR SEQ ID NO: 12:
      261      (i) SEQUENCE CHARACTERISTICS:
      262          (A) LENGTH: 21 base pairs
      263          (B) TYPE: nucleic acid
      264          (C) STRANDEDNESS: single
      265          (D) TOPOLOGY: linear
W--> 267      (ii) MOLECULE TYPE: DNA
      269      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
      271 TAACCAACAA TGACTAGGCA A
      273 (2) INFORMATION FOR SEQ ID NO: 13:
      275      (i) SEQUENCE CHARACTERISTICS:
      276          (A) LENGTH: 16 base pairs
      277          (B) TYPE: nucleic acid
      278          (C) STRANDEDNESS: single
      279          (D) TOPOLOGY: linear
W--> 281      (ii) MOLECULE TYPE: DNA
      283      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
      285 TTCCAGAGTC AGTGTC
      287 (2) INFORMATION FOR SEQ ID NO: 14:

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/604,325A

DATE: 07/02/2002

TIME: 10:09:38

Input Set : A:\32953A.txt

Output Set: N:\CRF3\07022002\I604325A.raw

```

289      (i) SEQUENCE CHARACTERISTICS:
290          (A) LENGTH: 29 base pairs
291          (B) TYPE: nucleic acid
292          (C) STRANDEDNESS: single
293          (D) TOPOLOGY: linear
W--> 295      (ii) MOLECULE TYPE: DNA
297          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
299 GCGAAGCTTG CCTTTCCTTA TGAAGAAGA                29
301 (2) INFORMATION FOR SEQ ID NO: 15:
303      (i) SEQUENCE CHARACTERISTICS:
304          (A) LENGTH: 38 base pairs
305          (B) TYPE: nucleic acid
306          (C) STRANDEDNESS: single
307          (D) TOPOLOGY: linear
W--> 309      (ii) MOLECULE TYPE: DNA
311          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
313 GCGCCGCGGT TACGGTGGTA ACATGAAGGG CTTTGTGA        38
315 (2) INFORMATION FOR SEQ ID NO: 16:
317      (i) SEQUENCE CHARACTERISTICS:
318          (A) LENGTH: 21 base pairs
319          (B) TYPE: nucleic acid
320          (C) STRANDEDNESS: single
321          (D) TOPOLOGY: linear
W--> 323      (ii) MOLECULE TYPE: DNA
325          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
327 GATAAATGCA AGTGATAATC C                            21
329 (2) INFORMATION FOR SEQ ID NO: 17:
331      (i) SEQUENCE CHARACTERISTICS:
332          (A) LENGTH: 36 base pairs
333          (B) TYPE: nucleic acid
334          (C) STRANDEDNESS: single
335          (D) TOPOLOGY: linear
W--> 337      (ii) MOLECULE TYPE: DNA
339          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
341 GCGGTCGACC CGCGGAAC TT TAAGTCCATG CAACAC        36
343 (2) INFORMATION FOR SEQ ID NO: 18:
345      (i) SEQUENCE CHARACTERISTICS:
346          (A) LENGTH: 36 base pairs
347          (B) TYPE: nucleic acid
348          (C) STRANDEDNESS: single
349          (D) TOPOLOGY: linear
W--> 351      (ii) MOLECULE TYPE: DNA
353          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
355 CACCCGCGGT TATGCAACAG GGGGTAACAT AAATGG        36
357 (2) INFORMATION FOR SEQ ID NO: 19:
359      (i) SEQUENCE CHARACTERISTICS:
360          (A) LENGTH: 36 base pairs
361          (B) TYPE: nucleic acid
362          (C) STRANDEDNESS: single

```